

## PATENT ABSTRACTS OF JAPAN

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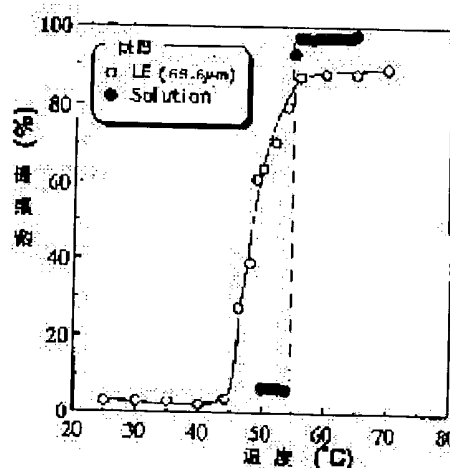
TAKAHASHI DAISUKE

## (54) THERMAL RESPONDING POLYMER FILM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a thermal responding polymer film which has low toxicity and is capable of readily changing phase transition temperature.

SOLUTION: The thermal responding polymer film is produced by crosslinkage of a copolymer of polyethyl oxazoline and linear polyethylene imine, and the polyethyl oxazoline of 100-0 mol% and the linear polyethylene imine of 0-100 mol% are contained in a monomer composition. Thus, a variety of thermal responding polymer films having various phase transition temperatures and low toxicities such as long-term oral toxicity are readily obtained so as to be applied to a wide range of uses.



## LEGAL STATUS

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